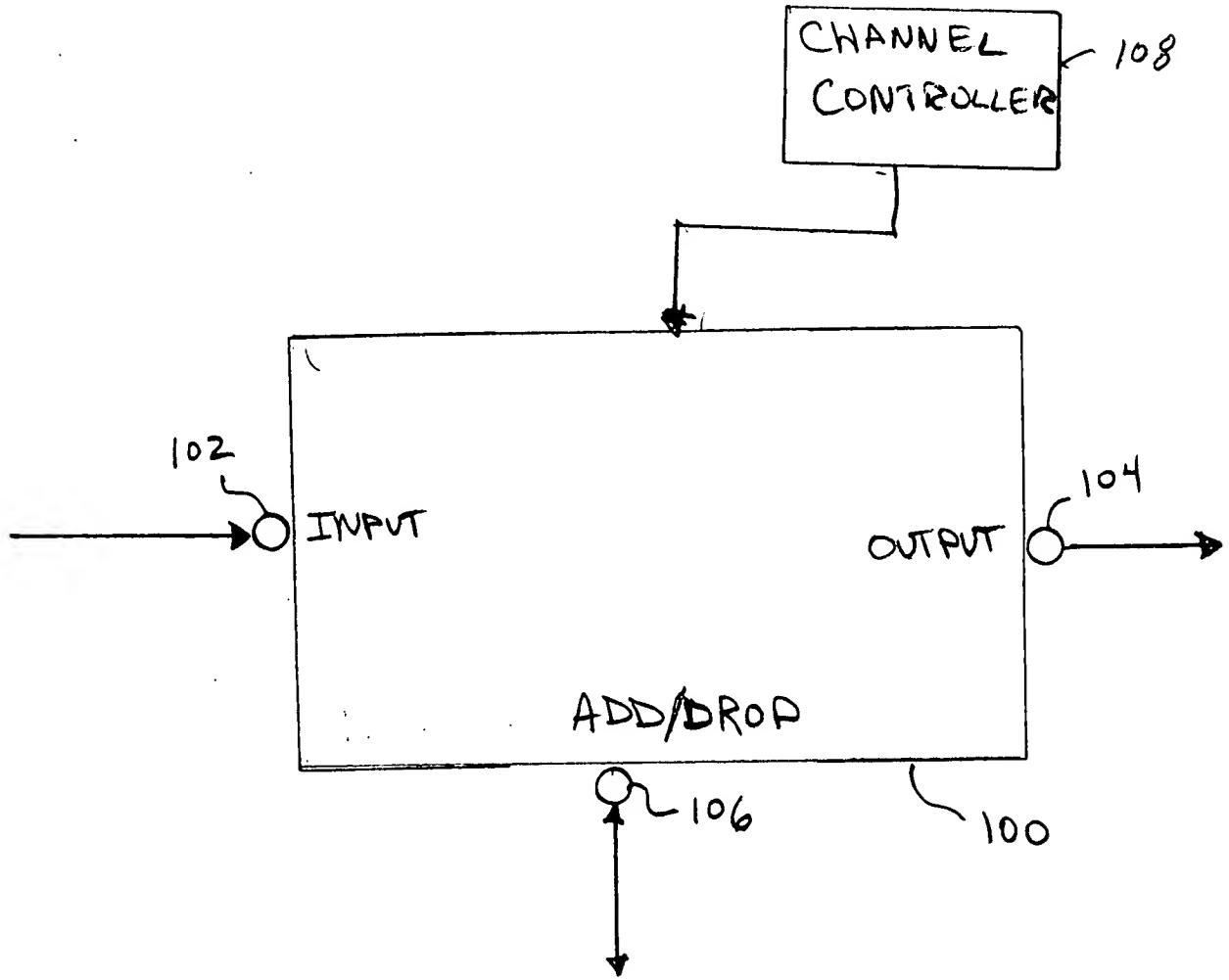


FIG. 1

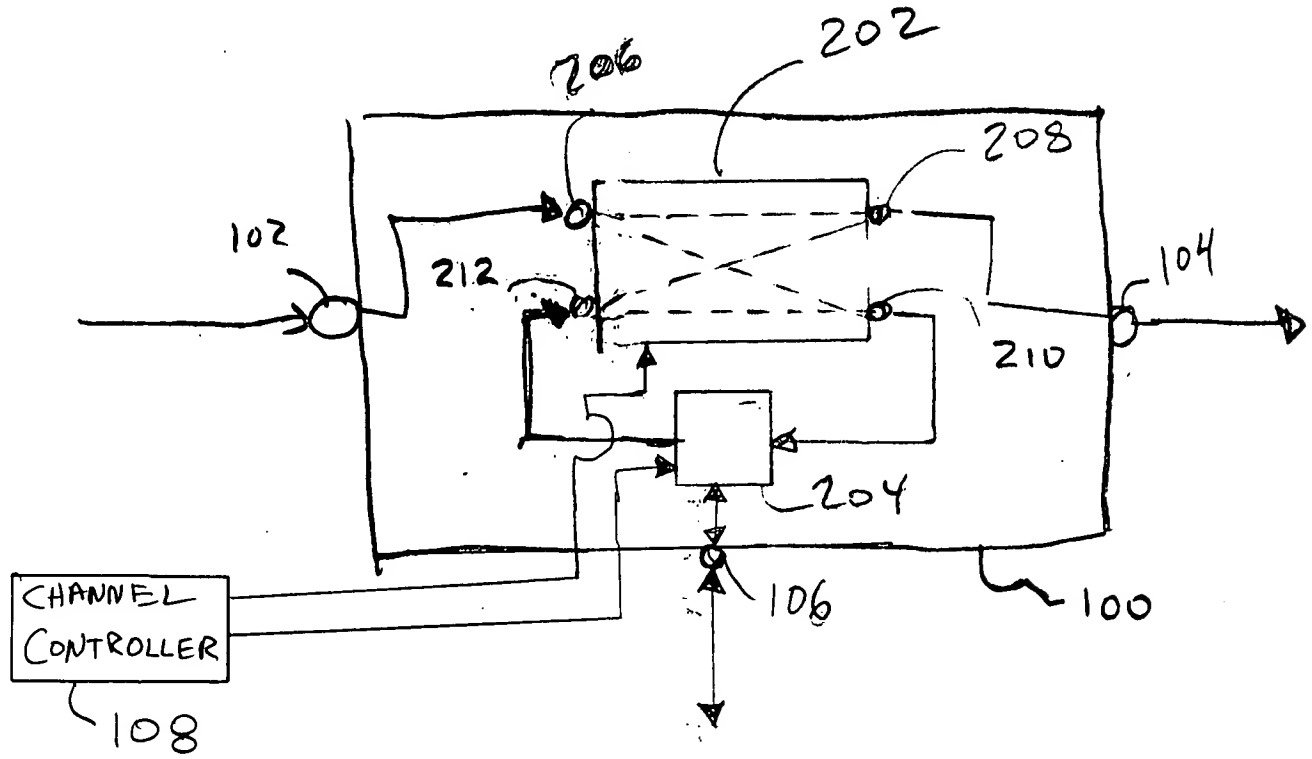


FIG. 2

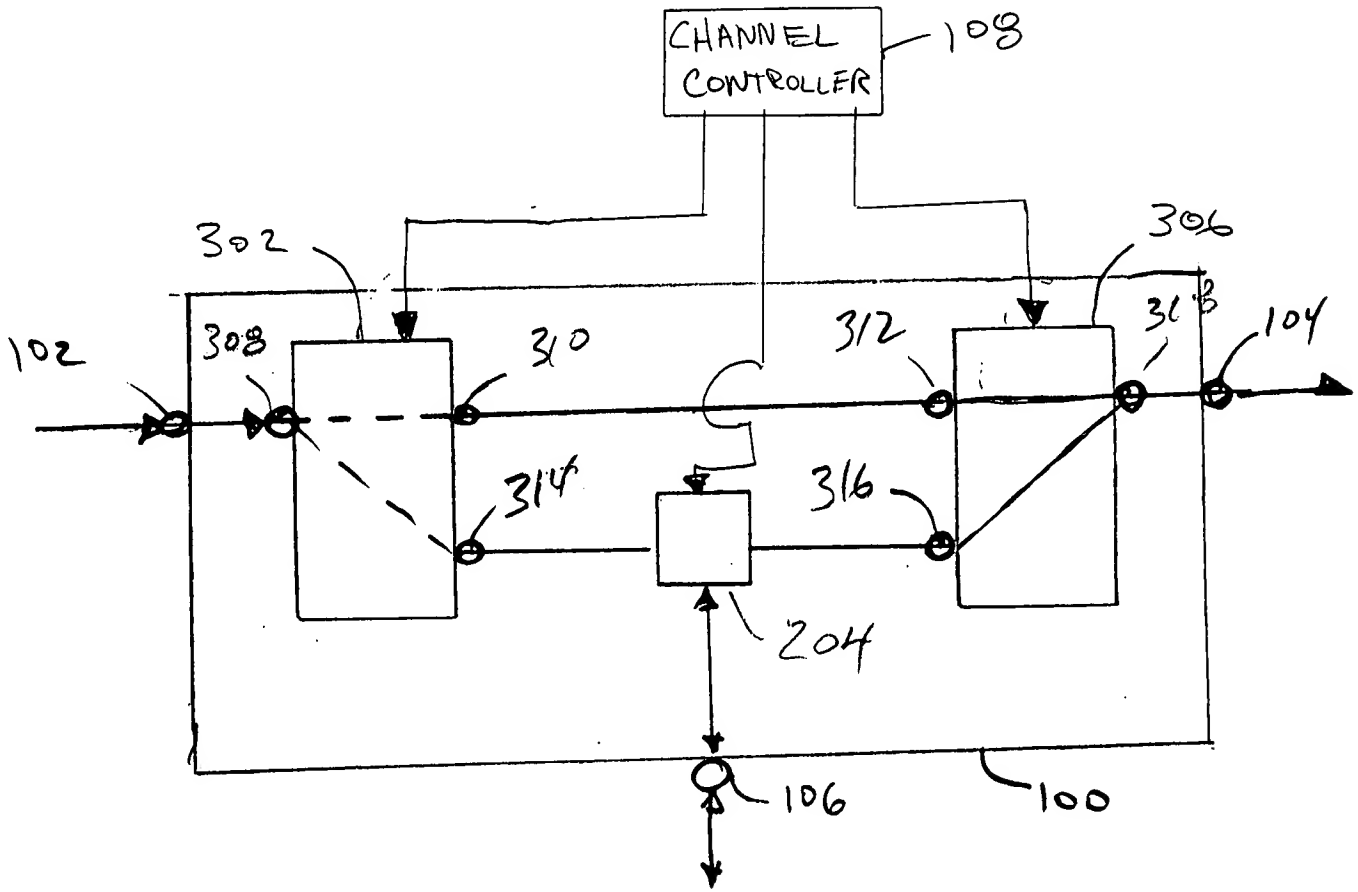


FIG 3

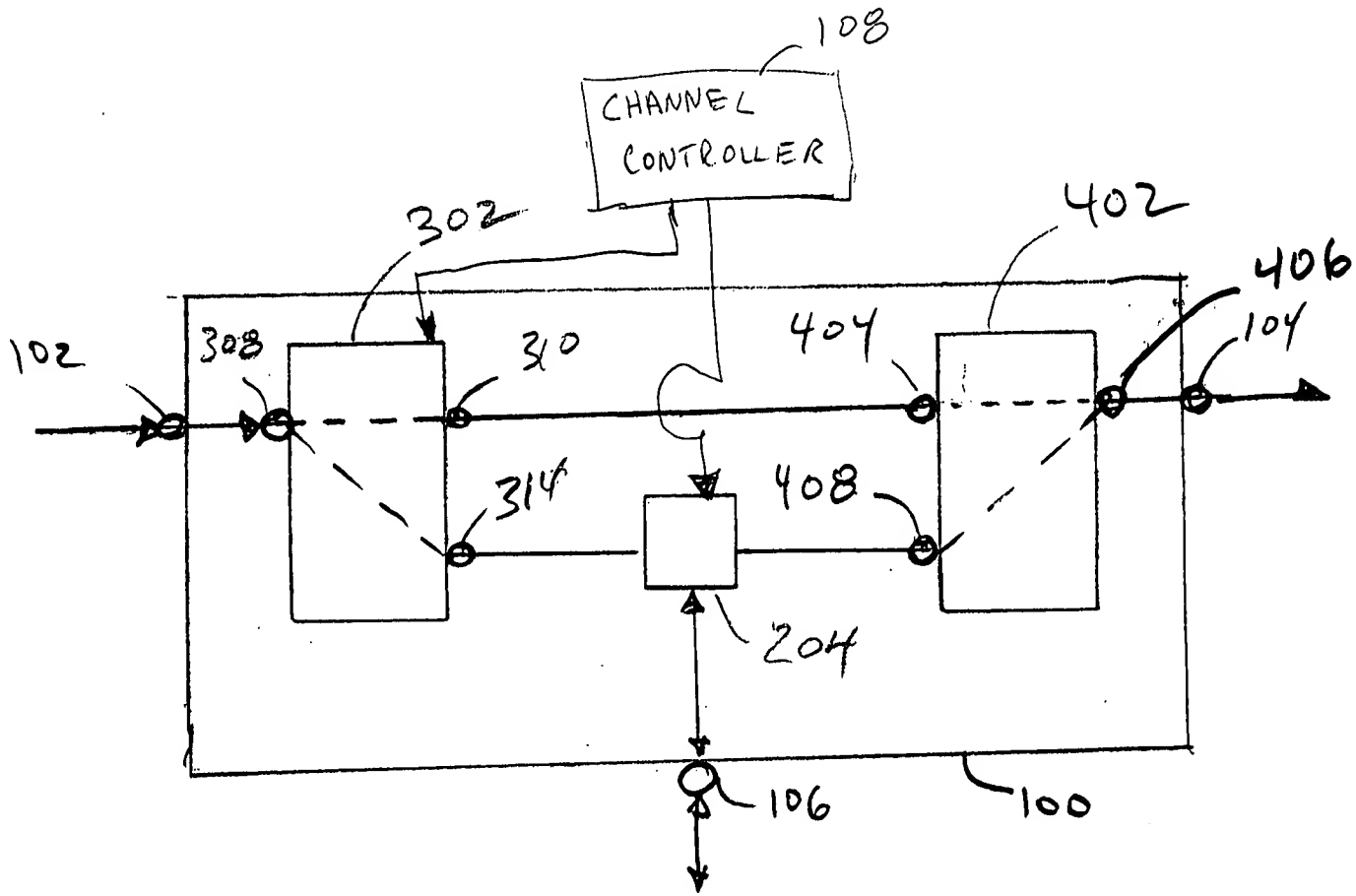


FIG. 4

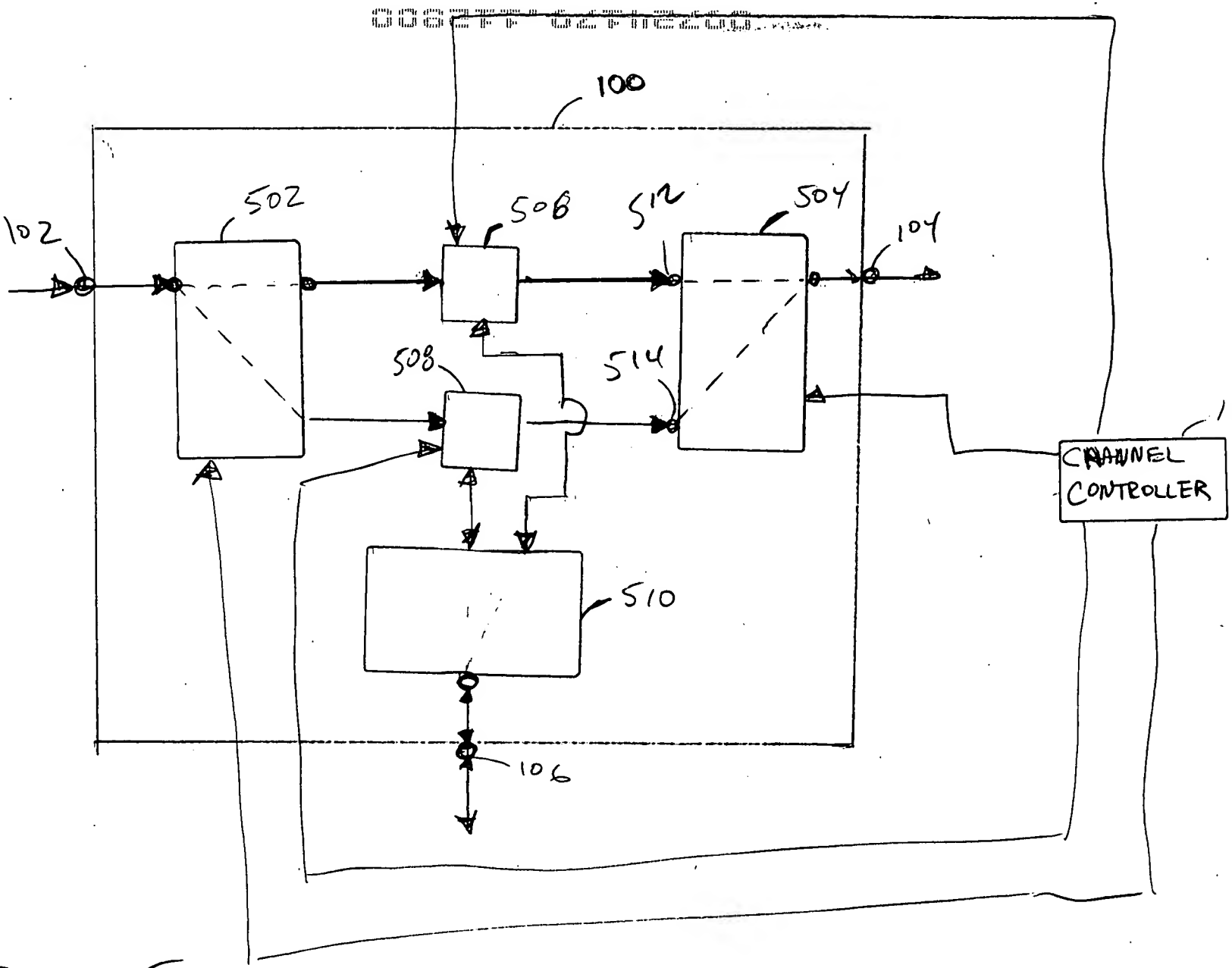

100
102
502
508
512
504
104
508
514
108
CHANNEL CONTROLLER
510
106

FIG 5

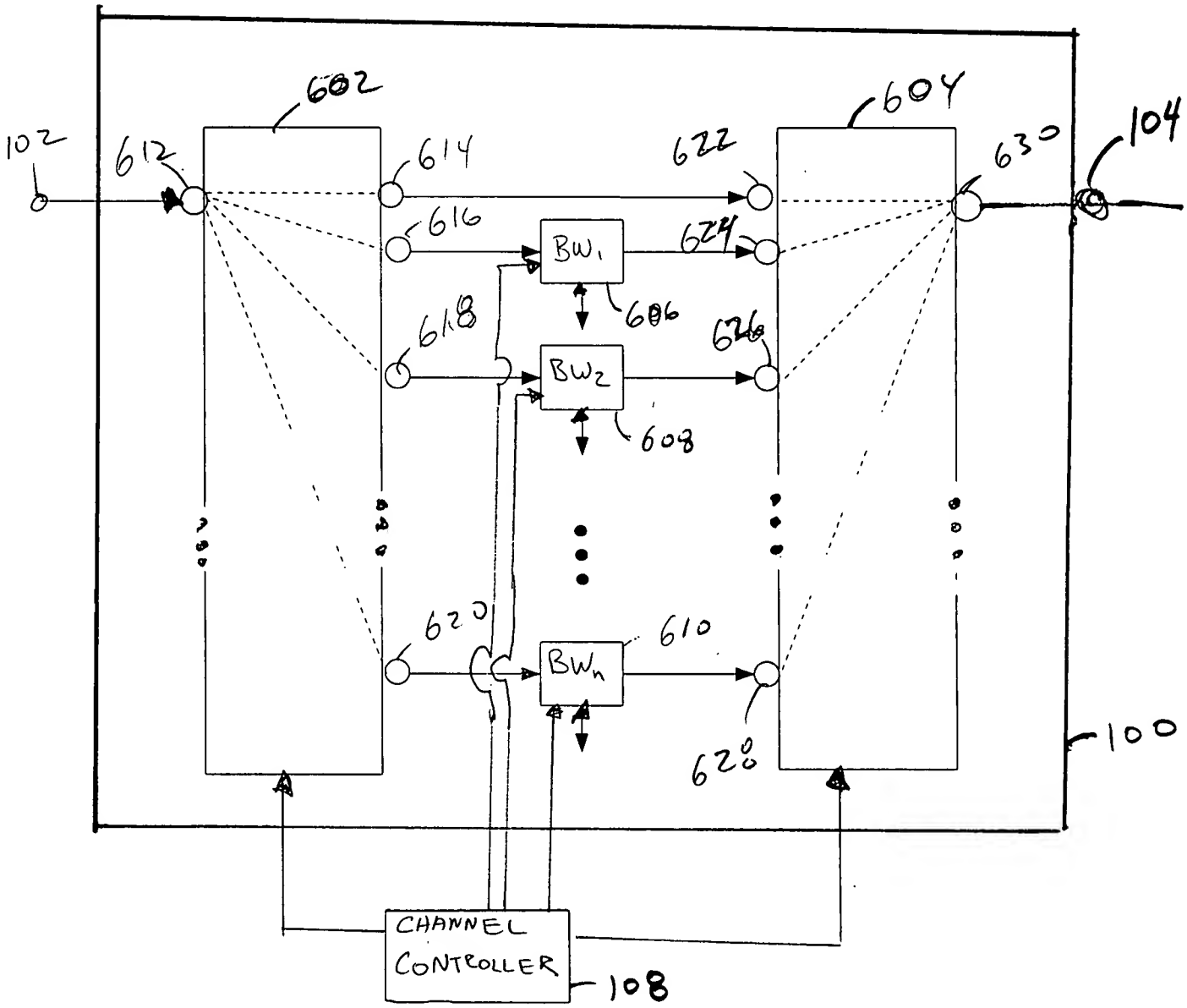


FIG. 6A

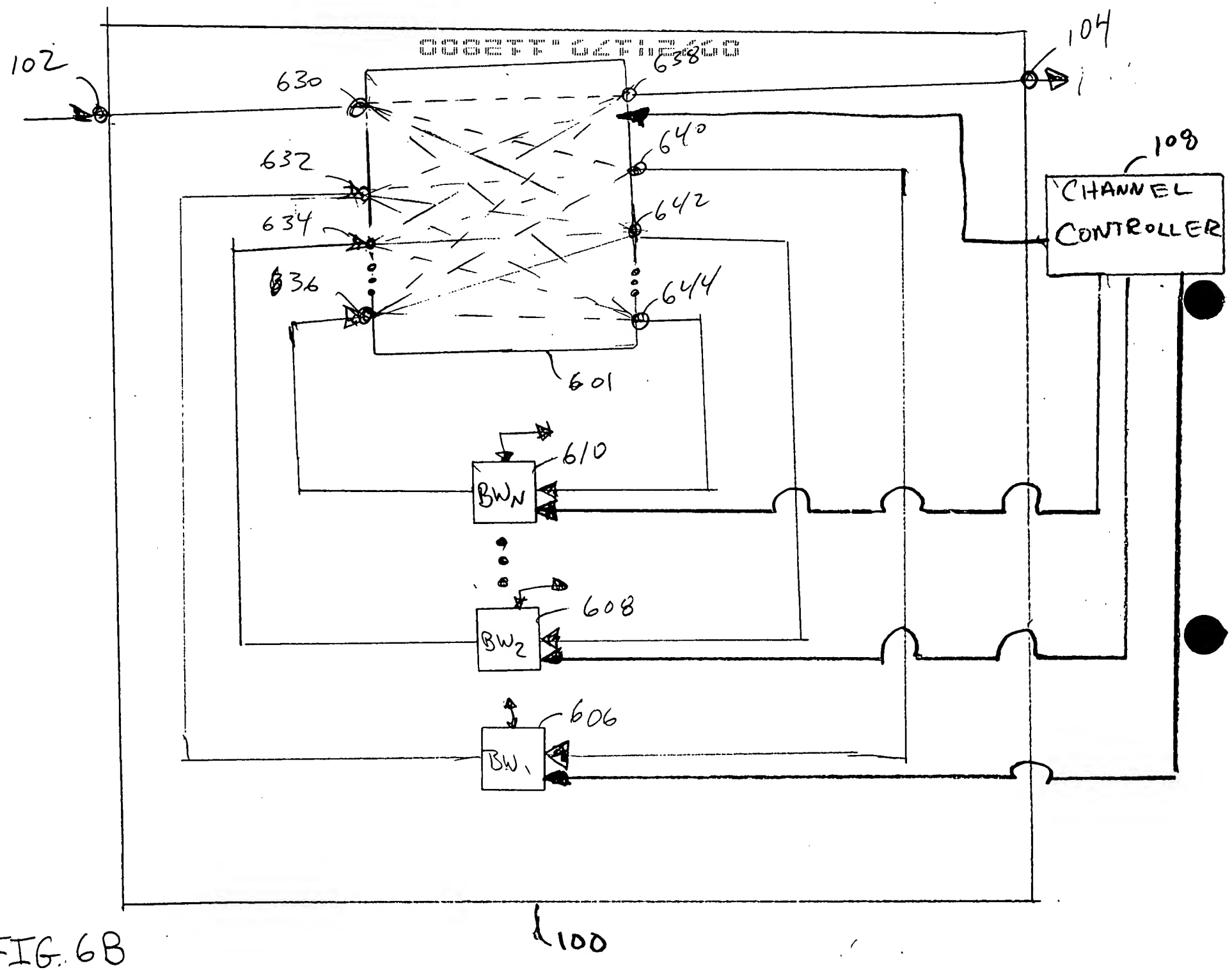

102
104
630
638
640
632
642
634
636
644
601
108
CHANNEL CONTROLLER
610
BW_N
608
BW_2
606
BW_1
100

FIG. 6B

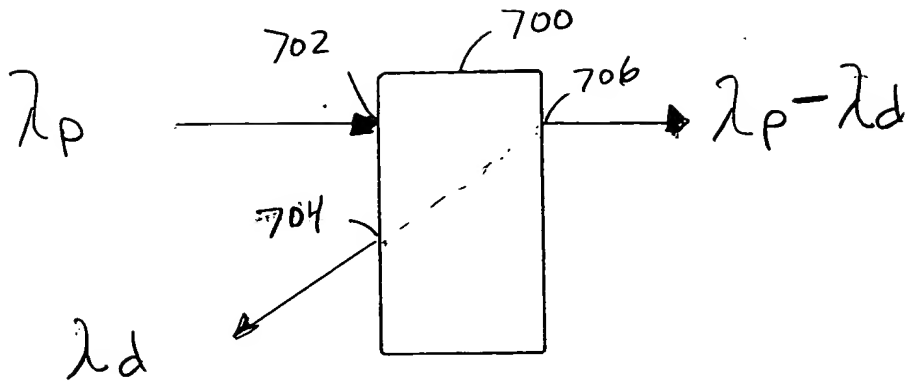

700
702
706
λ_p
$\lambda_p - \lambda_d$
704
λ_d

FIG. 7

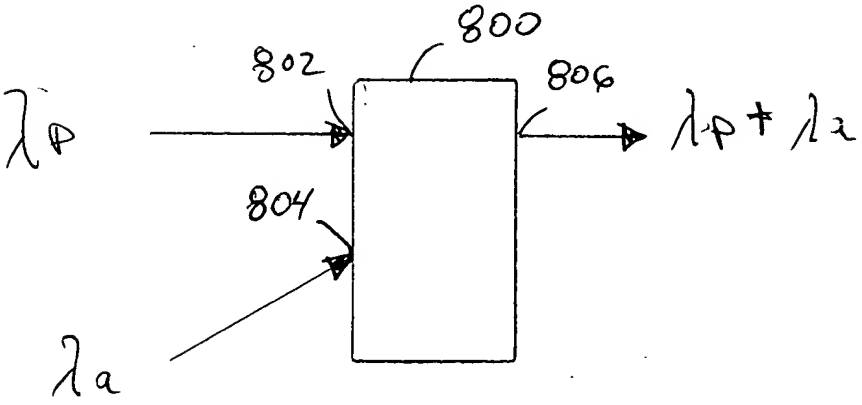
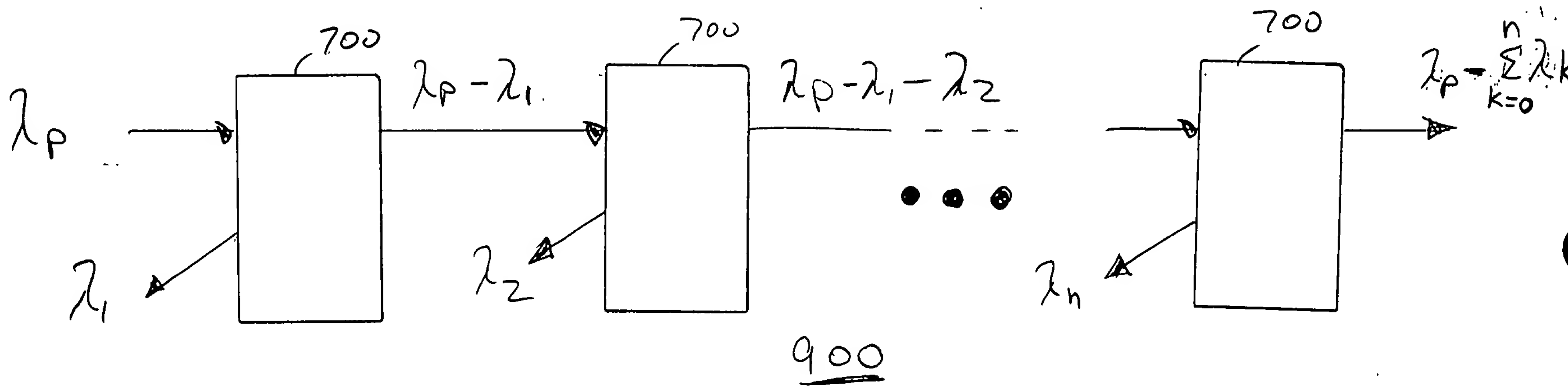
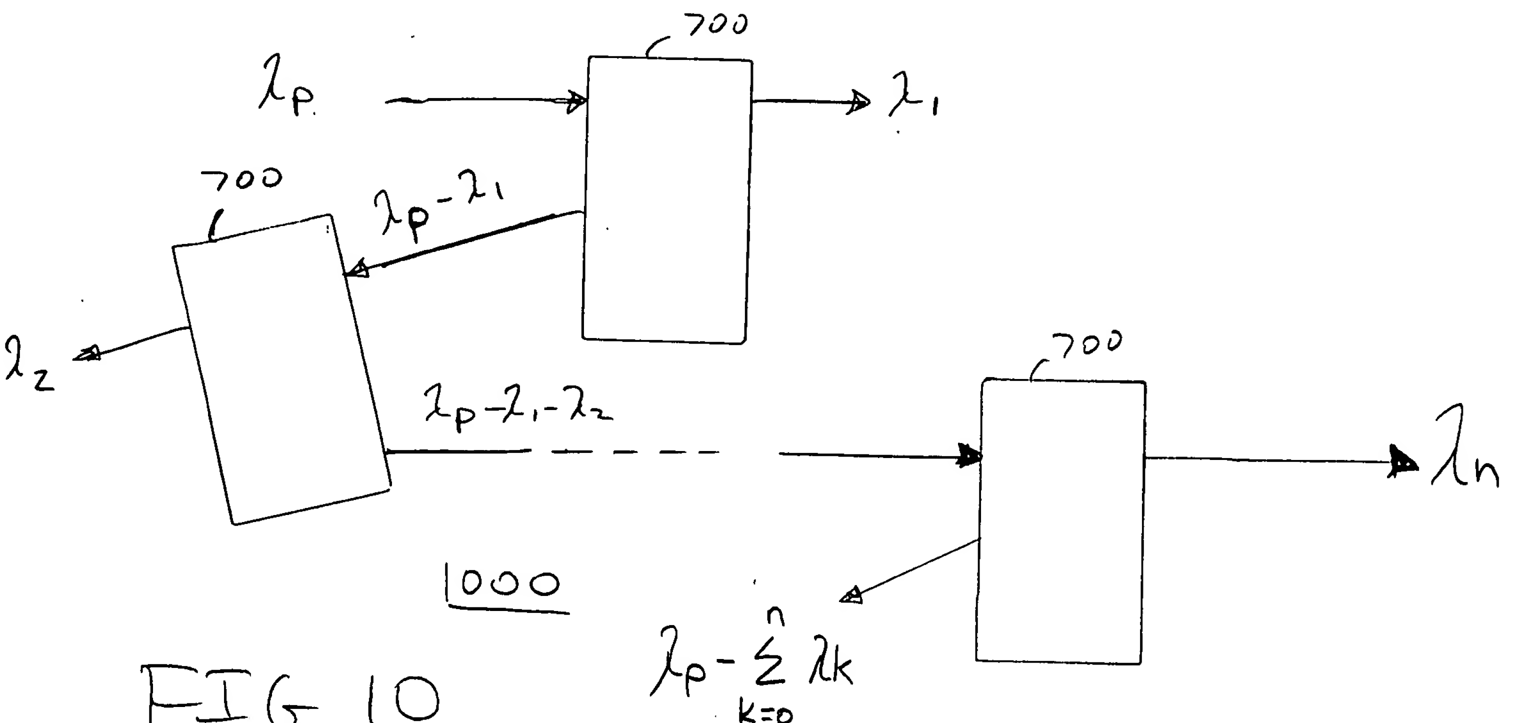

800
802
806
λ_p
$\lambda_p + \lambda_a$
804
λ_a

FIG. 8



λ_p
700
$\lambda_p - \lambda_1$
$\lambda_p - \lambda_1 - \lambda_2$
$\lambda_p - \sum_{k=0}^{n} \lambda_k$
λ_1
λ_2
λ_n
900

FIG. 9



λ_p
700
λ_1
$\lambda_p - \lambda_1$
λ_2
$\lambda_p - \lambda_1 - \lambda_2$
λ_n
$\lambda_p - \sum_{k=0}^{n} \lambda_k$
1000

FIG. 10

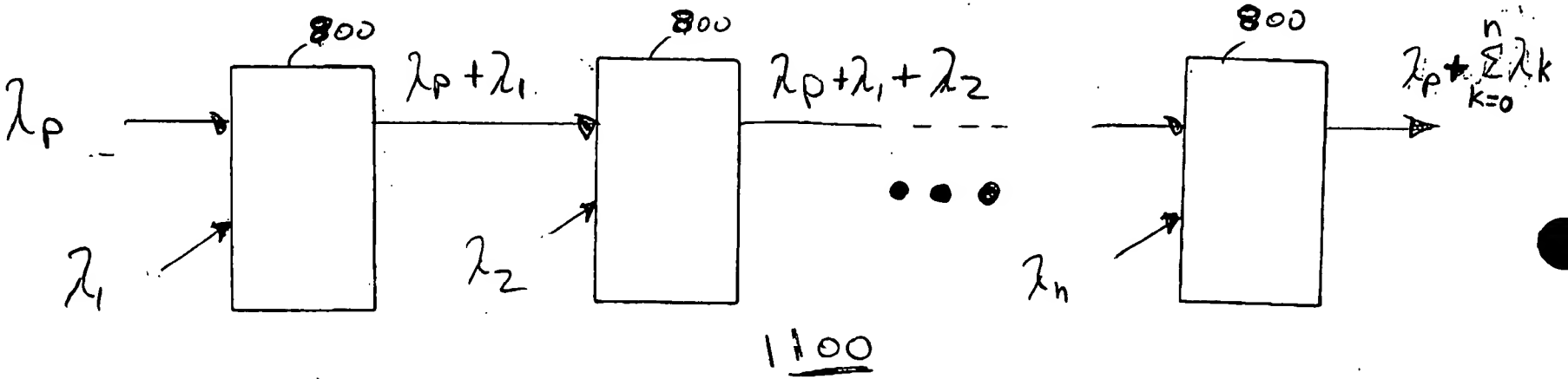


FIG. 11

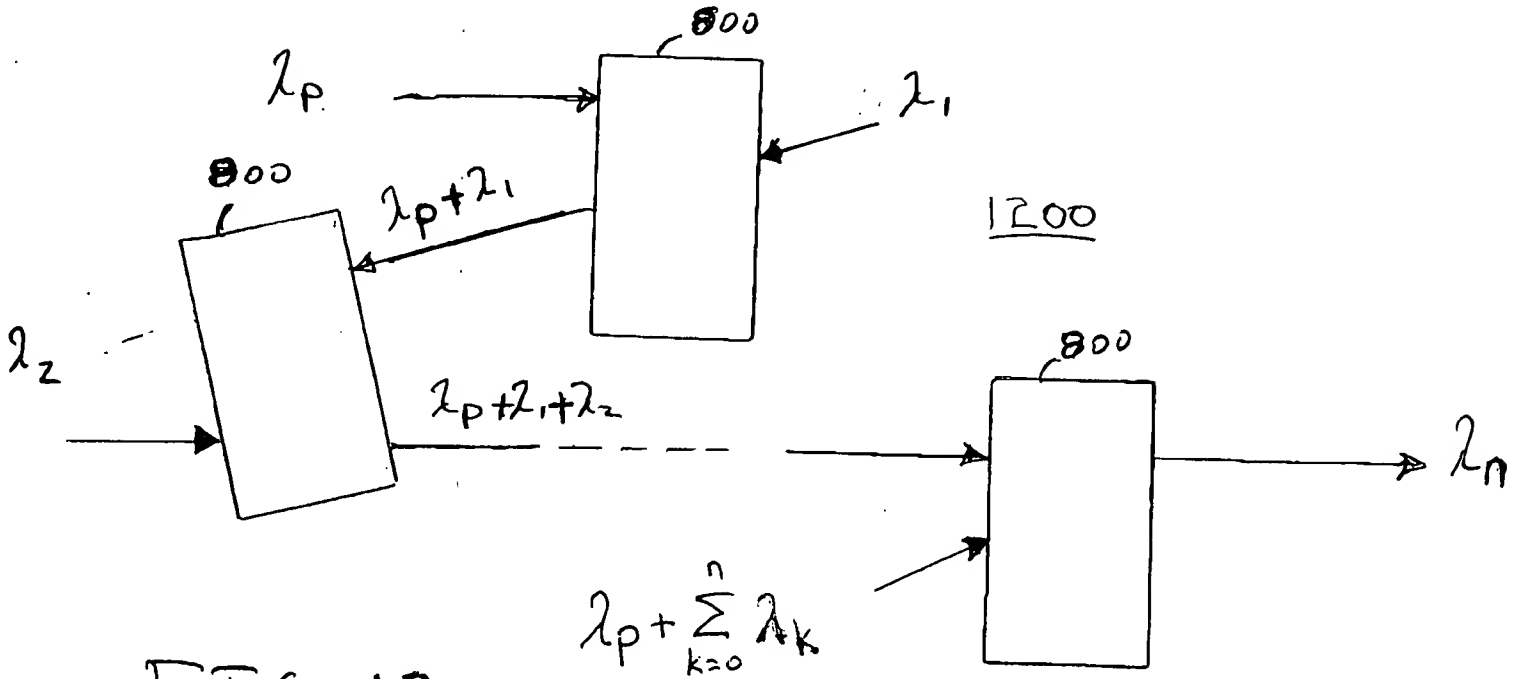


FIG. 12

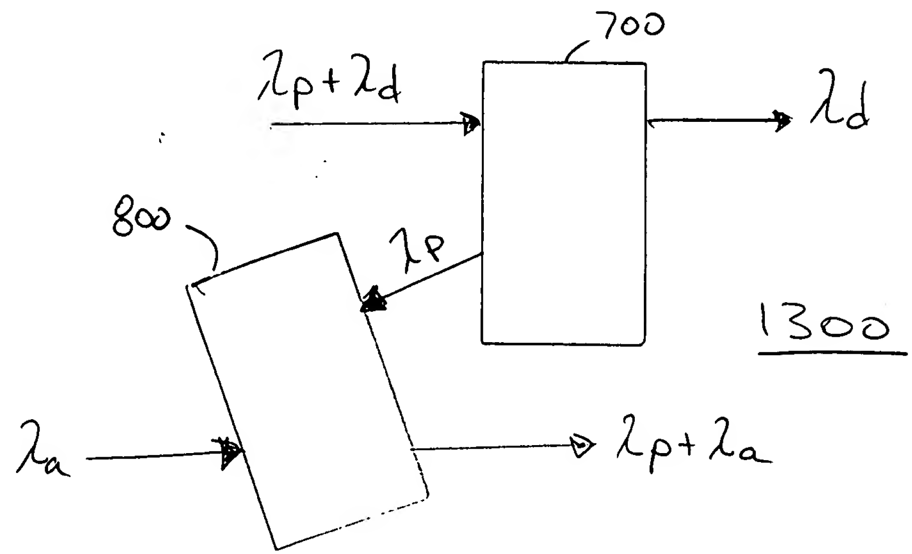

700
$\lambda_p + \lambda_d$
λ_d
800
λ_p
1300
λ_a
$\lambda_p + \lambda_a$

FIG. 13

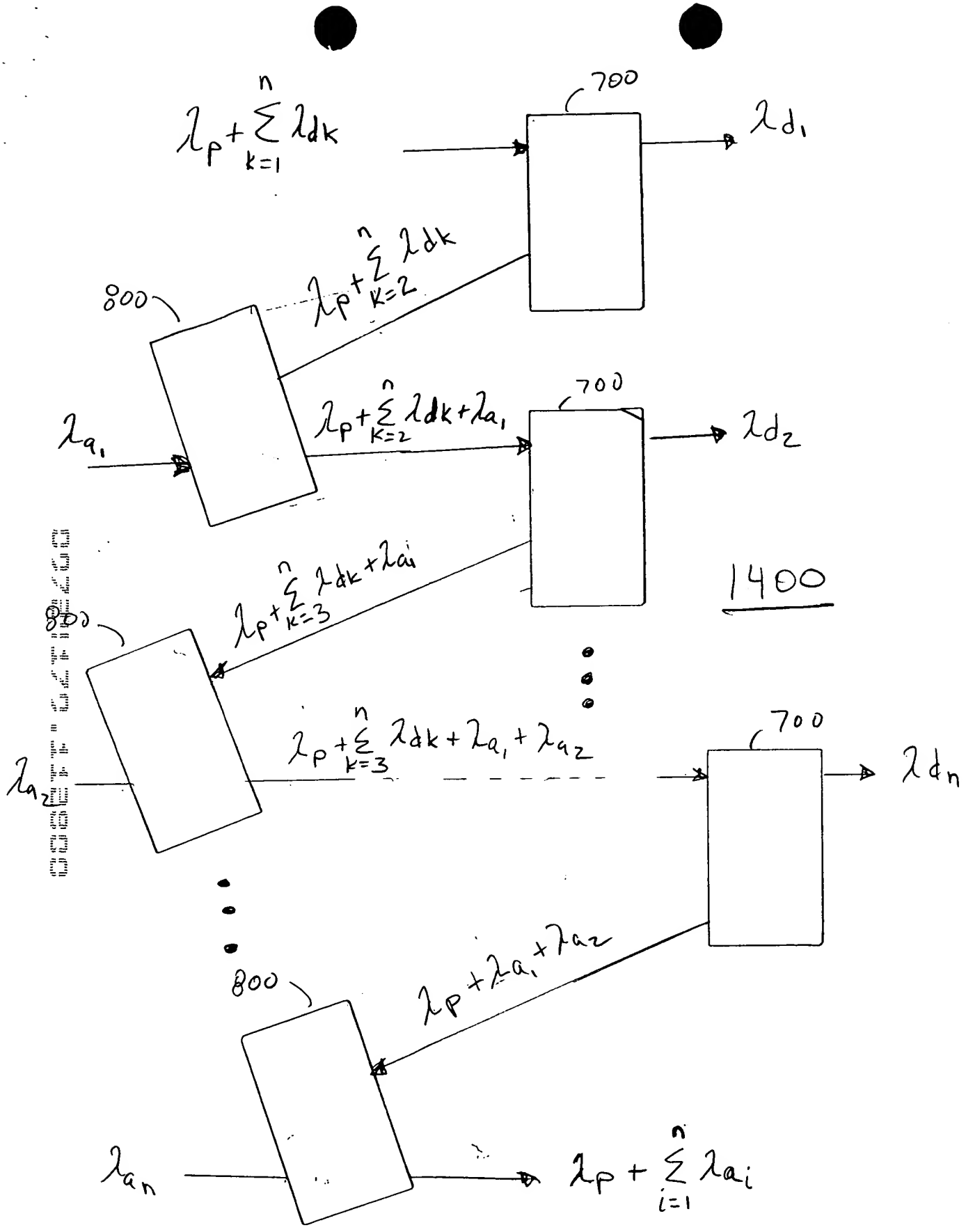

$\lambda_p + \sum_{k=1}^{n} \lambda_{dk}$
700
λ_{d_1}
800
$\lambda_p + \sum_{k=2}^{n} \lambda_{dk}$
λ_{a_1}
$\lambda_p + \sum_{k=2}^{n} \lambda_{dk} + \lambda_{a_1}$
700
λ_{d_2}
1400
800
$\lambda_p + \sum_{k=3}^{n} \lambda_{dk} + \lambda_{ai}$
$\lambda_p + \sum_{k=3}^{n} \lambda_{dk} + \lambda_{a_1} + \lambda_{a_2}$
700
λ_{a_2}
λ_{dn}
800
$\lambda_p + \lambda_{a_1} + \lambda_{a_2}$
λ_{an}
$\lambda_p + \sum_{i=1}^{n} \lambda_{ai}$

FIG. 14

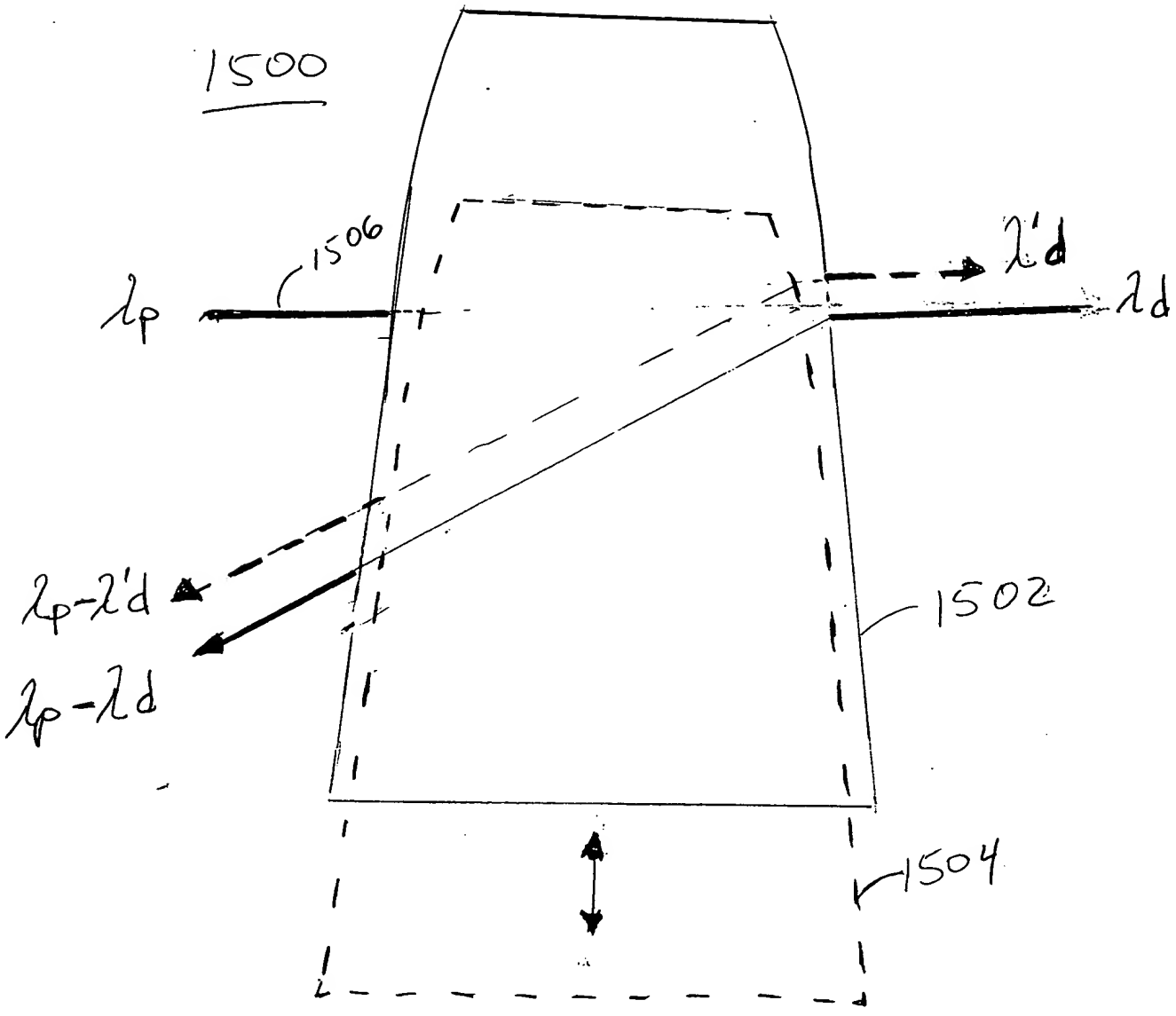

1500
1506
λ_p
λ'_d
λ_d
$\lambda_p - \lambda'_d$
$\lambda_p - \lambda_d$
1502
1504

FIG. 15

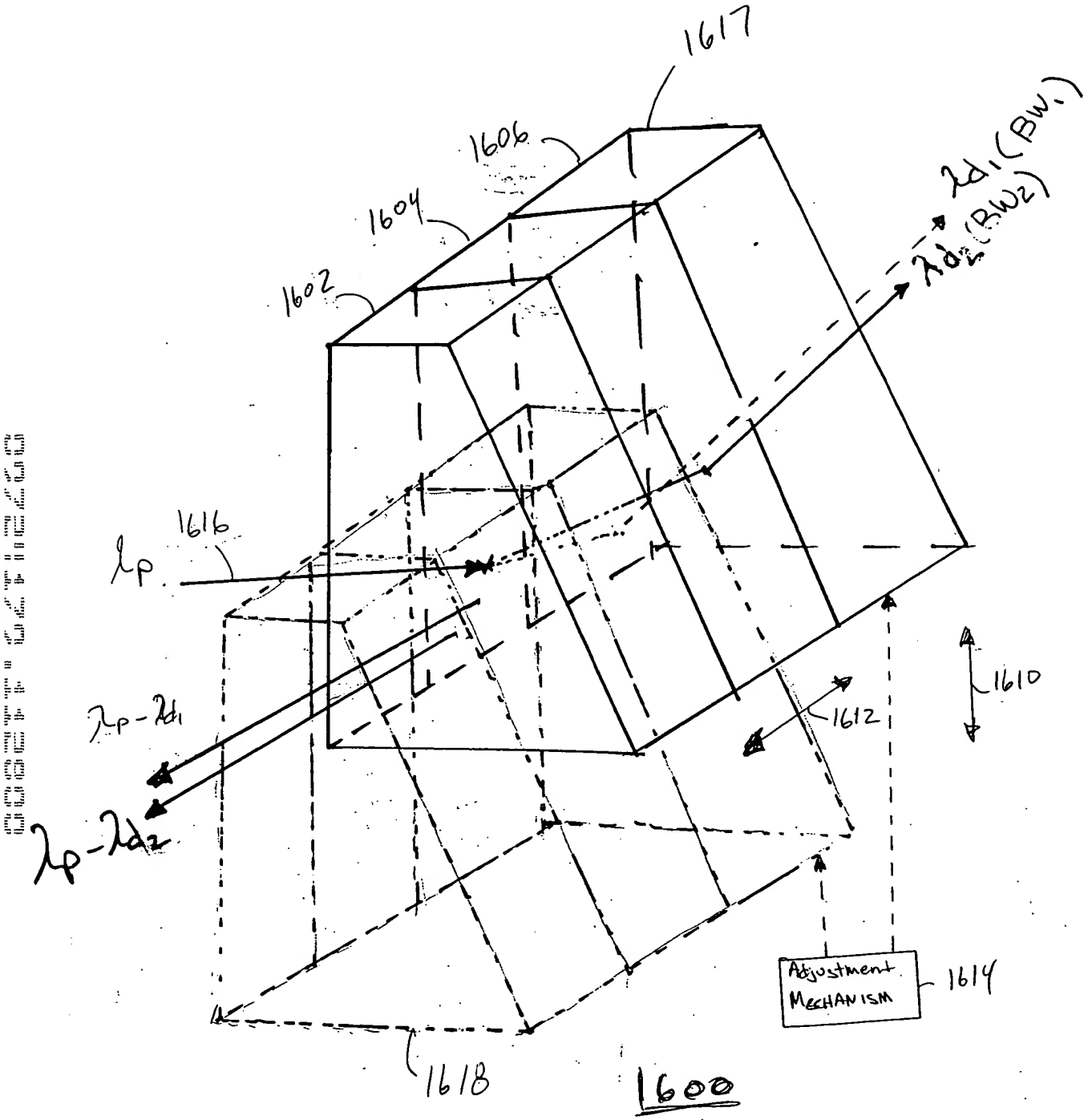

1617
1606
1604
1602
λd_1 (BW1)
λd_2 (BW2)
1616
λp
$\lambda p - \lambda d_1$
$\lambda p - \lambda d_2$
1610
1612
Adjustment Mechanism
1614
1618
1600

FIG. 16

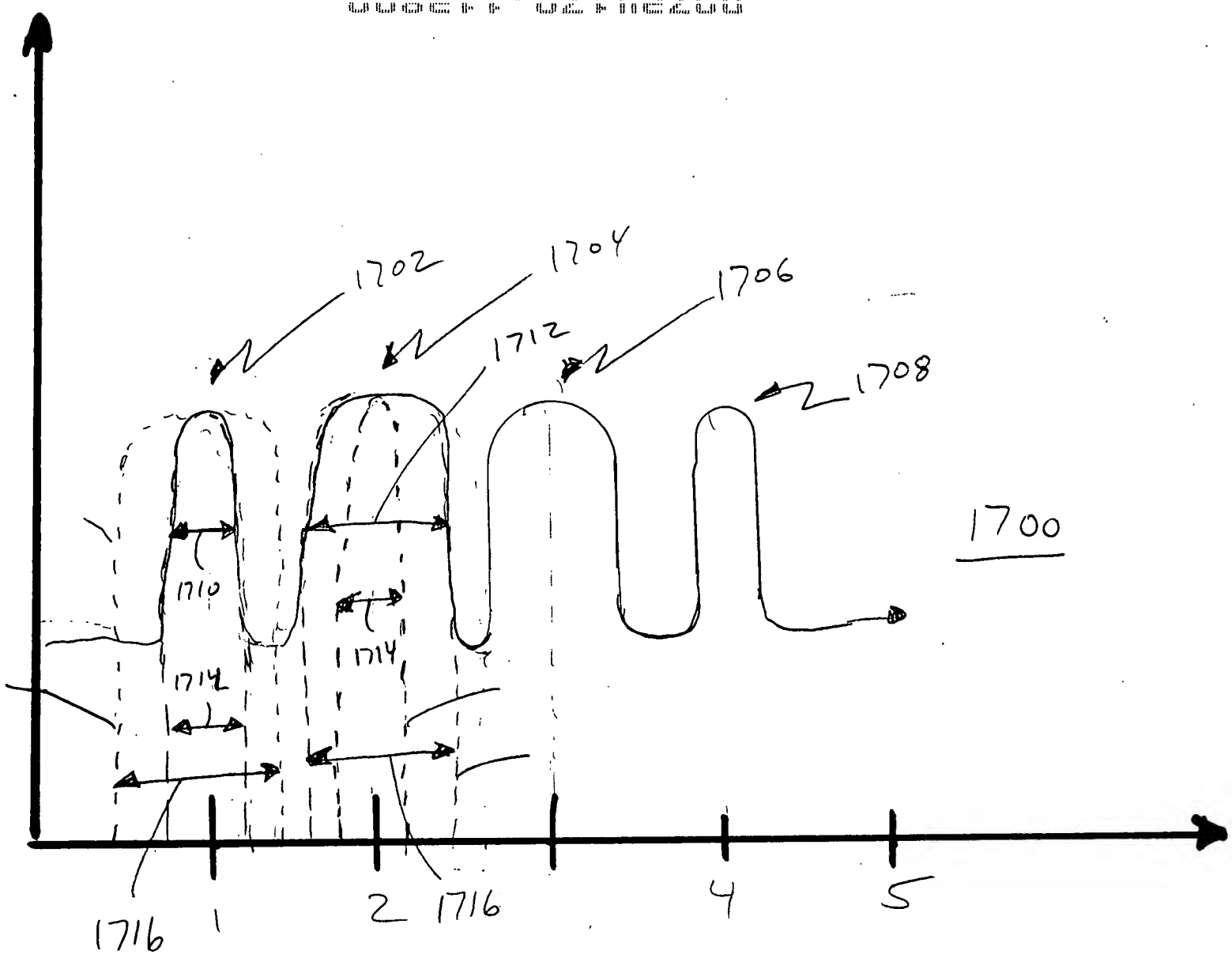


FIG. 17

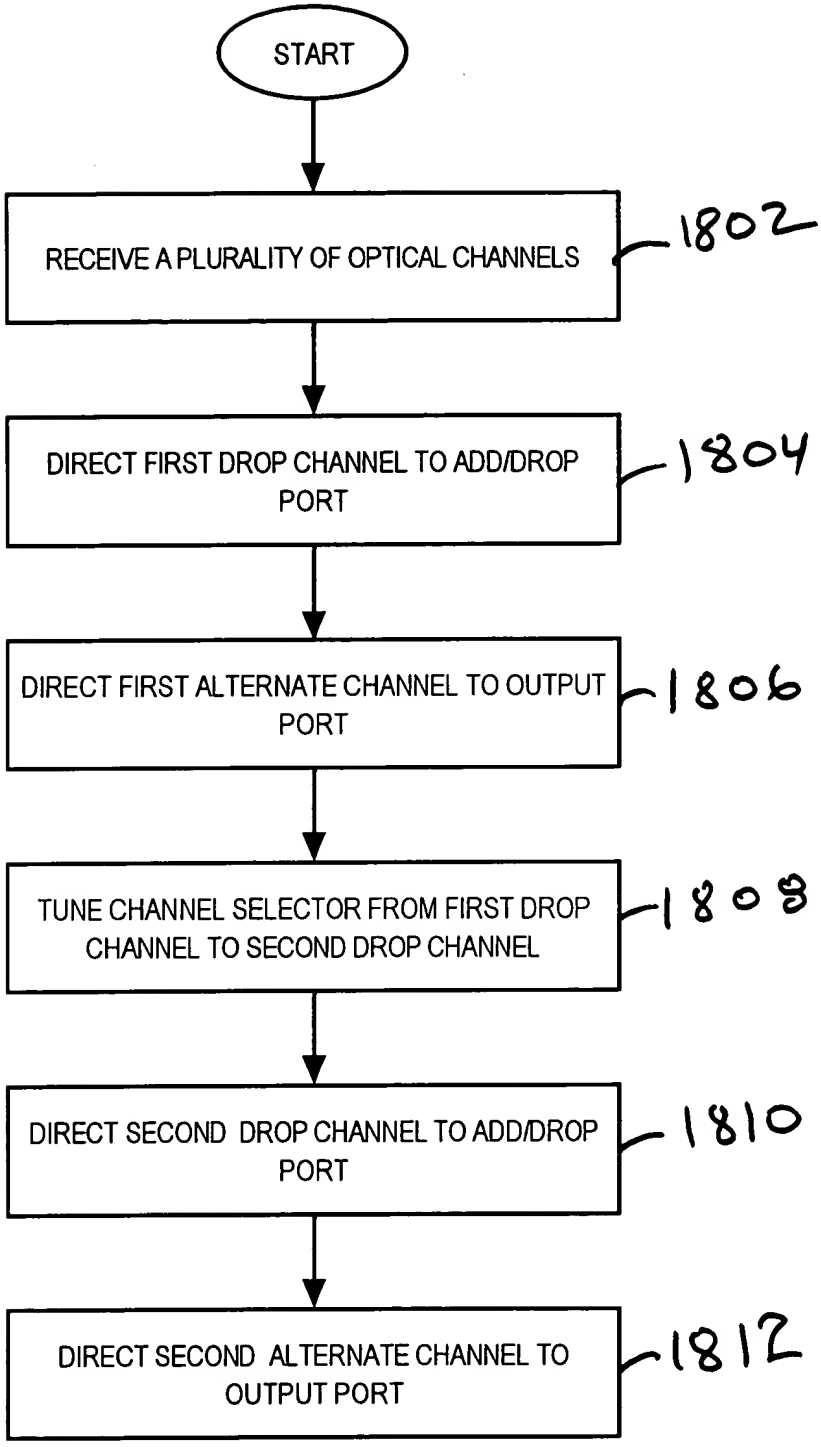

START
RECEIVE A PLURALITY OF OPTICAL CHANNELS
1802
DIRECT FIRST DROP CHANNEL TO ADD/DROP PORT
1804
DIRECT FIRST ALTERNATE CHANNEL TO OUTPUT PORT
1806
TUNE CHANNEL SELECTOR FROM FIRST DROP CHANNEL TO SECOND DROP CHANNEL
1808
DIRECT SECOND DROP CHANNEL TO ADD/DROP PORT
1810
DIRECT SECOND ALTERNATE CHANNEL TO OUTPUT PORT
1812

FIG. 18

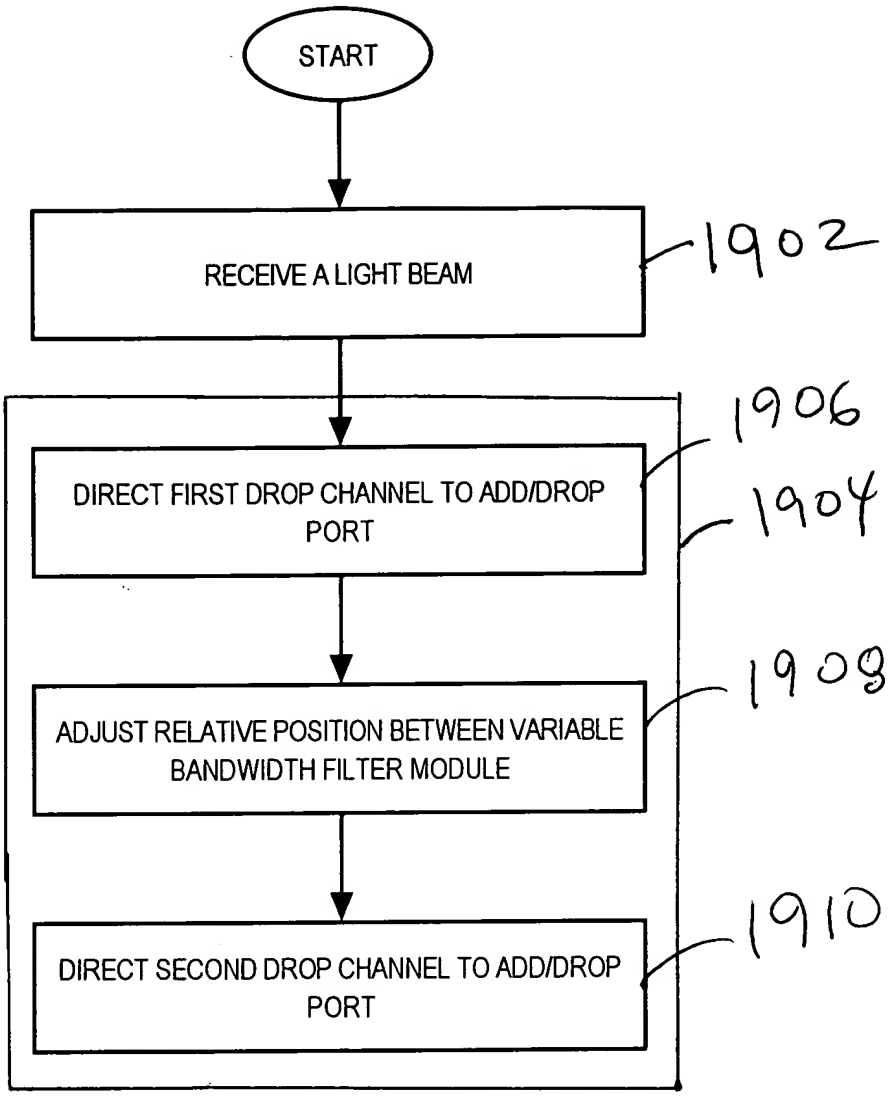

START
RECEIVE A LIGHT BEAM
1902
1906
DIRECT FIRST DROP CHANNEL TO ADD/DROP PORT
1904
1908
ADJUST RELATIVE POSITION BETWEEN VARIABLE BANDWIDTH FILTER MODULE
1910
DIRECT SECOND DROP CHANNEL TO ADD/DROP PORT

FIG. 19